



October 4, 2001

Addition of 4th Stack to NR 445 Thresholds

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4th Stack: What and Why

- **What:** Modeling of a 40 ft stack's thresholds for the 3 averaging times was added to the existing three stack thresholds: <25 ft; 25-75 ft; >75 ft. Modeling was done consistently with that for the other 3 stacks.
- **Why:** To allow sources with stacks between 40 and 75 ft the ability to quickly determine whether they are below a threshold.
- **Remember:** All thresholds apply only to unobstructed stacks (e.g., no “rainhats” or horizontal discharges)



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Modeling Summary: Emission Rate of 1 Pound Per Hour Results in Impact of X ug/M3

4th Stack

	<25 ft	25-40 ft	40-75 ft	>75 ft
1 Hour Avg.	1,339.2	420.5	218.7	81.5
24 Hour Avg.	446.8	115.0	57.0	14.8
Annual Avg.	49.3	12.0	5.04	1.43